

## ABSTRACT OF THE DISCLOSURE:

A direct methanol fuel cell comprises a multiple number of connected unit cells, each composed of a fuel electrode element of a microporous carbon material, an electrolyte layer formed on the outer surface of the fuel electrode element, an air electrode layer formed on the outer surface of the electrolyte layer, wherein each unit cell is supplied with fuel from a fuel reservoir through a fuel feeder having an infiltration structure coupled therebetween.